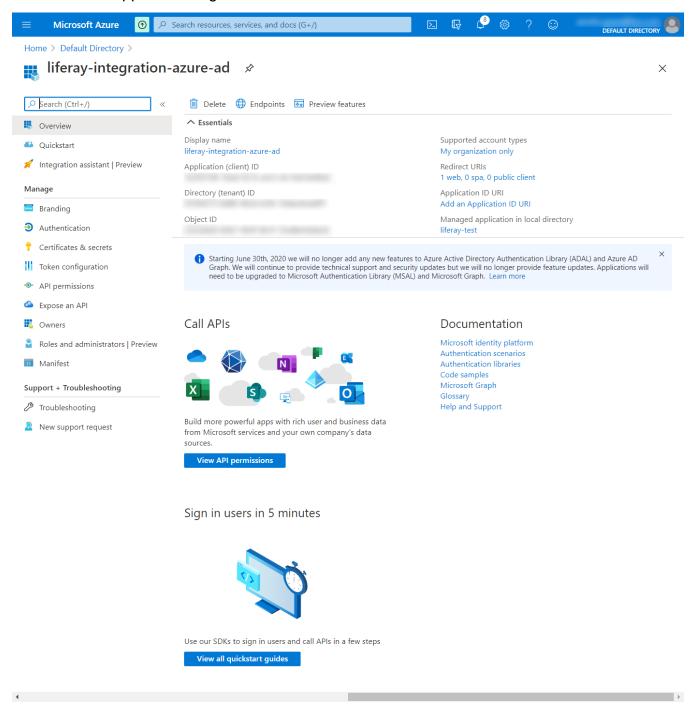
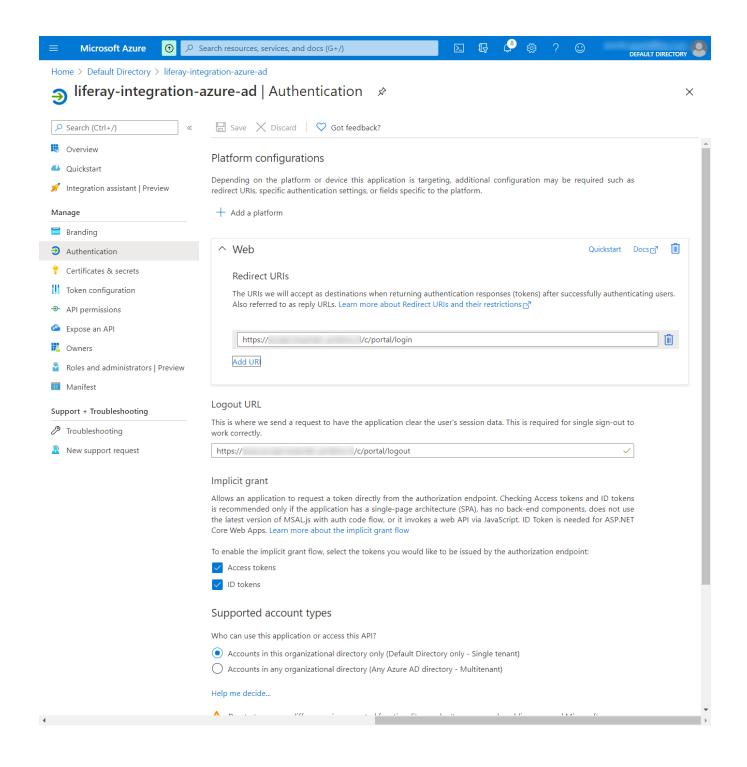
Liferay 6.2 integration with Azure AD

Configuration Azure AD default directory

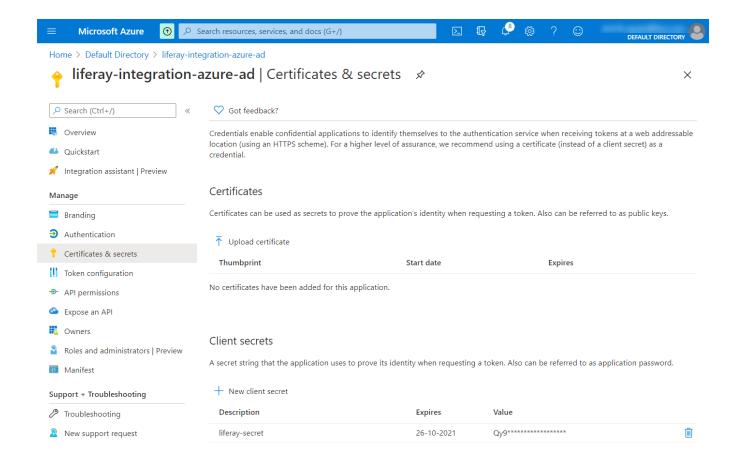
Create a new Application registration



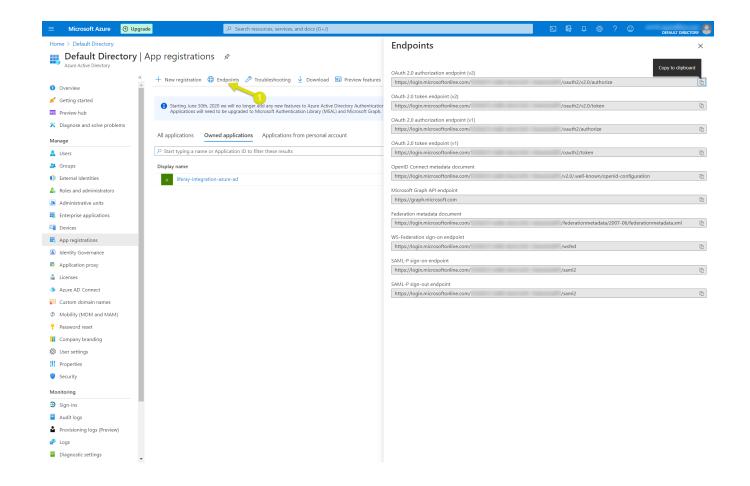
Register in authentication a platform configuration



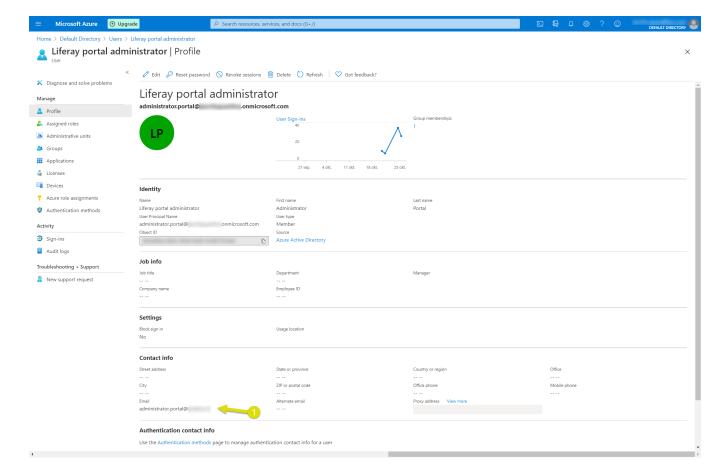
Create a secret configuration for the application



Here are the endpoints to use in liferay



Users for this integration is based having email, lastname, firstname the same as in liferay.



Configuration properties liferay

add the following property in your tomcat installation /opt/tomcat/bin/setenv.sh

setenv.sh
-Dcompany-id-properties=true

graph.microsoft.com certificate

microsoft.cer

----BEGIN CERTIFICATE----

MIIINjCCBh6gAwIBAgITMwABX4fknSl4INgvvgAAAAFfhzANBgkqhkiG9w0BAQwF ADBZMQswCQYDVQQGEwJVUzEeMBwGA1UEChMVTWljcm9zb2Z0IENvcnBvcmF0aW9u ${\tt MSowKAYDVQQDEyFNaWNyb3NvZnQgQXp1cmUgVExTIE1zc3VpbmcgQ0EgMDEwHhcN}$ MjAwOTE1MTkwMjE3WhcNMjEwOTEwMTkwMjE3WjBqMQswCQYDVQQGEwJVUzELMAkG A1UECBMCV0ExEDAOBgNVBAcTB1J1ZG1vbmQxHjAcBgNVBAoTFU1pY3Jvc29mdCBD b3Jwb3JhdGlvbjEcMBoGA1UEAxMTZ3JhcGgubWljcm9zb2Z0LmNvbTCCASIwDQYJ KoZIhvcNAQEBBQADggEPADCCAQoCggEBANPGohShsDsxewJkjuZt6fX/L2JKMqq6 NilXNscWsMG4gUYw70u1I75dkEPnyA8+RK+a1+wF3vakxXHjeVMae00FJUW8csui AIYahb1pDKG2FMXsPU1oTs+1LFzYiwEWO5olLxvdH9nW/Tx7U8sQ5/eY0S/Z94mx 8oWRMUfsb1JEuAJk15DZxqi7uCpGKvXE9ccVAE1BD+x7u3yZe/sG0fOw75WB9iqK 9lnv2B6CnV9LfKQKvUDK/l383ZtYSAy4UovHGlS2QBn/lxPstHS6xxbrOaTZaxMT lsHDL67AXJpJD9JCtmjKmSD38Y71oeQL5CqAk0vtBTNouqshSUzkmXMCAwEAAaOC A+QwggPgMIIBfQYKKwYBBAHWeQIEAgSCAW0EggFpAWcAdQD2XJQv0XcwIhRUGAgw lfaO400TGTO/3wwvIAvMTvFk4wAAAXSTLpiBAAAEAwBGMEQCIFkgMtWZMAKzHjgo v+tVY3sgSzfo0b9Hkj14VnQN8caIAiBwHD5cE1cHT84UY0czuSLhoUH5dyfkutqB 8cOydlDe6AB2AFzcO5L+5qtFRLFemtRW5hA3+9X6R9yhc5SyXub2xw7KAAABdJMu mNcAAAQDAEcwRQIhALcCxn/LHTqBUXor1p2C/Wy9HWFw5mWfby3xaTr2VrbPAiAH sx60JYemcy+Wd54rNTFgmZAnDPSFHKnMH/baJ7DotAB2AESUZS6w7s6vxEAH2Kj+ KMDa5oK+2MsxtT/TM5a1toGoAAABdJMumJIAAAQDAEcwRQIhAIN3a9ZUMIAddsJj D+5kHjpejWVCgMElrJ8heBcA3DwaAiAPnJZ1pPXn26IABgK5PzqIxzeyaSZ8hNEv CncOM/GuBDAbBgkrBgEEAYI3FQoEDjAMMAoGCCsGAQUFBwMBMDwGCSsGAQQBgjcV BwQvMC0GJSsGAQQBgjcVCIe91xuB5+tGgoGdLo7QDIfw2h1dgbXdUIWf/XUCAWQC AROwqa4GCCsGAOUFBwEBBIGhMIGeMG0GCCsGAOUFBzAChmFodHRwOi8vd3d3Lm1p Y3Jvc29mdC5jb20vcGtpb3BzL2NlcnRzL01pY3Jvc29mdCUyMEF6dXJlJTIwVExT JTIwSXNzdWluZyUyMENBJTIwMDElMjAtJTIweHNpZ24uY3J0MC0GCCsGAQUFBzAB hiFodHRwOi8vb25lb2NzcC5taWNyb3NvZnQuY29tL29jc3AwHQYDVR0OBBYEFPGE tncncIF0F/gVJe14zT9BxK8VMA4GA1UdDwEB/wQEAwIEsDAeBgNVHREEFzAVghNn $\verb|cmFwaC5taWNyb3NvZnQuY29tMGQGA1UdHwRdMFswWaBXoFWGU2h0dHA6Ly93d3cu| \\$ bWljcm9zb2Z0LmNvbS9wa2lvcHMvY3JsL01pY3Jvc29mdCUyMEF6dXJ1JTIwVExT JTIwSXNzdWluZyUyMENBJTIwMDEuY3JsMGYGA1UdIARfMF0wUQYMKwYBBAGCN0yD fQEBMEEwPwYIKwYBBQUHAgEWM2h0dHA6Ly93d3cubWljcm9zb2Z0LmNvbS9wa2lv cHMvRG9jcy9SZXBvc210b3J5Lmh0bTAIBgZngQwBAgIwHwYDVR0jBBgwFoAUDyBd 16FX1duSzyvQx8J3BM5ygHYwEwYDVR01BAwwCgYIKwYBBQUHAwEwDQYJKoZIhvcN AQEMBQADggIBADn6uS0VJ+KnB0j6hSGy4wSNG6EBHOmQd+IWLByrTJpoSokRvR+F Dr3eP6oDBAocDZ5FxMlrZwO3GJdOUZpwoH3WQ8mIvyggaflD7B2uJVDehEf1U6C/ AOAhf5utTcvVVJ16oKloDwic7cMK4oMhOAfZ6nWoxxqVKNRiCAJIhy3DFOkTOuX7 kYfbga0DJeR9EMst9EoSSp8859ygR4HJGy03A7H4F45w/OJgSRckSE5gV4x1DaRx ar3XOtnbM+htfsHk1z29J1jbslQGUuAiQRGLZ7dSZAIo0/94d59N8ZcUoelIRsYS 01iGFJhUyA+LTVbrsXiDbQrw9Ug2ZK2Fy1Q+weq9hSK7dMefNhQSeNnJruT244h4 F+UuhKrx66QP4RhACeKmSqUfpzMxfrqnmdHY3kxoQQZo+4/FRjNn9GT1/SC0e4EC 71 w MjmxJbVnA fon w UVXxRkpBGMsUeQeF2ln1/66S4GV2KKohAqGV2cEsmp9R/gJnsweup2Y2PJx4ke3rfou3wC7kFunHe6s8k+Mw7/8Vql0UAvs1kiD46E1q0e/mko8n 7rABZ+E/Stmt7V+P0uhWYRULVcjYLU0pi2N18KXov3HxZy1NfBldihjQlf0yt4Zy Y1Nx4nniJrWqv5HAQkM1/06uX+NZ0ExAt6muFxQYSp1QraEgk4PUxX1S ----END CERTIFICATE----

login.microsoftonline.com certificate

azure.cer

----BEGIN CERTIFICATE----

MIIDrzCCApegAwIBAgIQCDvgVpBCRrGhdWrJWZHHSjANBgkqhkiG9w0BAQUFADBh MQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnaUNlcnQgSW5jMRkwFwYDVQQLExB3 $\tt d3cuZGlnaWNlcnQuY29tMSAwHgYDVQQDExdEaWdpQ2VydCBHbG9iYWwgUm9vdCBD$ QTAeFw0wNjExMTAwMDAwMDBaFw0zMTExMTAwMDAwMDBaMGExCzAJBgNVBAYTAlVT MRUwEwYDVQQKEwxEaWdpQ2VydCBJbmMxGTAXBgNVBAsTEHd3dy5kaWdpY2VydC5j $\verb|b20xIDAeBgNVBAMTFORpZ21DZXJ0IEdsb2JhbCBSb290IENBMIIBIjANBgkqhkiG| \\$ 9w0BAQEFAAOCAQ8AMIIBCgKCAQEA4jvhEXLeqKTTo1eqUKKPC3eQyaK17hL01lsB CSDMAZOnTjC3U/dDxGkAV53ijSLdhwZAAIEJzs4bg7/fzTtxRuLWZscFs3YnFo97 nh6Vfe63SKMI2tavegw5BmV/Sl0fvBf4q77uKNd0f3p4mVmFaG5cIzJLv07A6Fpt 43C/dxC//AH2hdmoRBBYMql1GNXRor5H4idq9Joz+EkIYIvUX7Q6hL+hqkpMfT7P T19sd16gSzeRntwi5m3OFBqOasv+zbMUZBfHWymeMr/y7vrTC0LUq7dBMtoM1O/4 gdW7jVg/tRvoSSiicNoxBN33shbyTApOB6jtSj1etX+jkMOvJwIDAQABo2MwYTAO BqNVHO8BAf8EBAMCAYYwDwYDVR0TAOH/BAUwAwEB/zAdBqNVHO4EFqOUA95ONVbR TLtm8KPiGxvD17I90VUwHwYDVR0jBBgwFoAUA95QNVbRTLtm8KPiGxvD17I90VUw DQYJKoZIhvcNAQEFBQADggEBAMucN6pIExIK+t1EnE9SsPTfrgT1eXkIoyQY/Esr hMAtudXH/vTBH1jLuG2cenTnmCmrEbXjcKChzUyImZOMkXDigw8cvpOp/2PV5Adq 060/nVsJ8dW041P0jmP6P6fbtGbfYmbW0W5BjfIttep3Sp+dW0IrWcBAI+0tKIJF PnlUkiaY4IBIqDfv8NZ5YBberOgOzW6sRBc4L0na4UU+Krk2U886UAb3LujEV0ls YSEY1QSteDwsOoBrp+uvFRTp2InBuThs4pFsiv9kuXclVzDAGySj4dzp30d8tbQk CAUw7C29C79Fv1C5qfPrmAESrciIxpg0X40KPMbp1ZWVbd4=

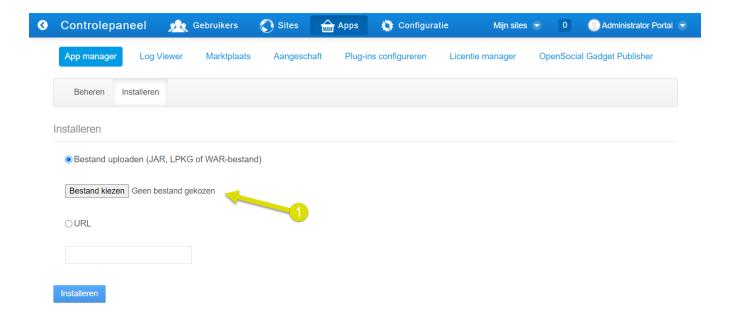
----END CERTIFICATE----

Add the microsoft following certificates to java keystore

java keystore certificates

```
cd $(readlink -f /usr/bin/javac | sed "s:/bin/javac::")
cd jre/lib/security/
# the password is changeit
keytool -import -alias graph.microsoft.com -keystore cacerts -file /opt/liferay/microsoft.cer
keytool -import -alias login.microsoftonline.com -keystore cacerts -file /opt/liferay/azure-ad.cer
```

Install the following liferay OpenID plugin





Add the following values in **portal-ext.properties**

porta-ext.properties

```
#open id azure active directory
openidconnect.enableOpenIDConnect=true
openidconnect.token-location=https://login.microsoftonline.com/{TENANT-APP-ID}/oauth2/v2.0/token
openidconnect.authorization-location=https://login.microsoftonline.com/{TENANT-APP-ID}/oauth2/v2.0/authorize
openidconnect.profile-uri=https://graph.microsoft.com/oidc/userinfo
openidconnect.user-membership-location=https://graph.microsoft.com/v1.0/me/memberOf
openidconnect.issuer=https://login.microsoftonline.com/{TENANT-APP-ID}/v2.0
openidconnect.client-id={APPID-APP-REGISTRATION}
openidconnect.secret={SECRET-CONFIGURED-APP-REGISTRATION}
openidconnect.scope=openid profile email
openidconnect.provider=azure-default
openidconnect.sso-logout-uri=https://login.microsoftonline.com/{TENANT-APP-ID}/oauth2/v2.0/logout
```